

AN - 1991:206591 CAPLUS
 DN - 114:206591
 TI - Preparation of [(perfluoroalkyl)ethyl]thioureas and -carbodiimides
 IN - Bollens, Eric; Szonyi, Francois; Cambon, Aime
 PA - Atochem S. A., Fr.
 SO - Ger. Offen., 20 pp.
 CODEN: GWXXBX
 DT - Patent
 LA - German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|--|------|----------|-----------------|----------|
| PN | DE4016071 | A | 19901129 | DE 1990-4016071 | 19900518 |
| | FR2647112 | A | 19901123 | FR 1989-6639 | 19890522 |
| | GB2231870 | A | 19901128 | GB 1990-11287 | 19900521 |
| | GB2231870 | B | 19920722 | | |
| | JP3027352 | A | 19910205 | JP 1990-132453 | 19900522 |
| | JP7037438 | B | 19950426 | | |
| | US5026910 | A | 19910625 | US 1990-526992 | 19900522 |
| | US5107021 | A | 19920421 | US 1991-685305 | 19910412 |
| PR | FR 1989-6639 | | 19890522 | | |
| | US 1990-526992 | | 19900522 | | |
| OS | MARPAT 114:206591 | | | | |
| AB | R(CH ₂) ₂ X [X = isothiocyanato, N:C:N(CH ₂) ₂ R ₁ , NHCSA; R, R ₁ = C ₂ -16 perfluoroalkyl; A = (substituted) amino, ammonium salt, N-oxide, etc.] were prepd. Thus, Ph ₃ P in THF was added dropwise to n-C ₄ F ₉ (CH ₂) ₂ N ₃ and the mixt. was stirred 1 h, cooled to 0.degree., and CS ₂ was added. The stirring continued 2 h without cooling to give n-C ₄ F ₉ (CH ₂) ₂ N:C:S (I) in 69% yield. | | | | |

AN - 1991:206591 CAPLUS
 DN - 114:206591
 TI - Preparation of [(perfluoroalkyl)ethyl]thioureas and -carbodiimides
 IN - Bollens, Eric; Szonyi, Francois; Cambon, Aime
 PA - Atochem S. A., Fr.
 SO - Ger. Offen., 20 pp.
 CODEN: GWXXBX
 DT - Patent
 LA - German
 FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|-------------------|------|----------|-----------------|----------|
| PN | DE4016071 | A | 19901129 | DE 1990-4016071 | 19900518 |
| | FR2647112 | A | 19901123 | FR 1989-6639 | 19890522 |
| | GB2231870 | A | 19901128 | GB 1990-11287 | 19900521 |
| | GB2231870 | B | 19920722 | | |
| | JP3027352 | A | 19910205 | JP 1990-132453 | 19900522 |
| | JP7037438 | B | 19950426 | | |
| | US5026910 | A | 19910625 | US 1990-526992 | 19900522 |
| | US5107021 | A | 19920421 | US 1991-685305 | 19910412 |
| PR | FR 1989-6639 | | 19890522 | | |
| | US 1990-526992 | | 19900522 | | |
| OS | MARPAT 114:206591 | | | | |

IT - 133600-49-4P 133600-50-7P 133600-51-8P
 133600-52-9P 133600-65-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. of)
 RN - 133600-49-4 CAPLUS
 CN - Thiourea, N,N'-bis(3,3,4,4,5,5,6,6,6-nonafluorohexyl)- (9CI) (CA INDEX NAME)

..00000091]

V 133600-50-7 CAPLUS

(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)- (9CI) (CA INDEX NAME)

[--00000092],

RN 133600-51-8 CAPLUS

CN Thiourea, N,N'-bis(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)-
(9CI) (CA INDEX NAME)

[--00000093]

RN 133600-52-9 CAPLUS

CN Thiourea, N-(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptadecafluorodecyl)-N'-(3,3,4,4,5,5,6,6,6-nonafluorohexyl)- (9CI)
(CA INDEX NAME)

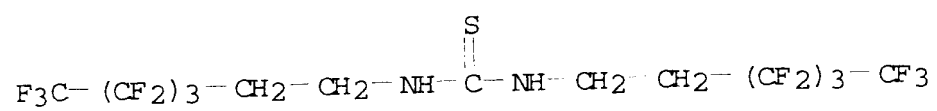
[--00000094]

RN 133600-65-4 CAPLUS

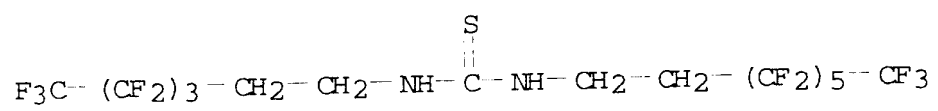
CN 1,2-Ethanediaminium, N,N,N',N'-tetramethyl-N,N'-bis[2-
[[thioxo[(3,3,4,4,5,5,6,6,7,7,8,8,8-tridecafluorooctyl)amino]methyl]
amino]ethyl]-, dibromide (9CI) (CA INDEX NAME)

[--00000095]

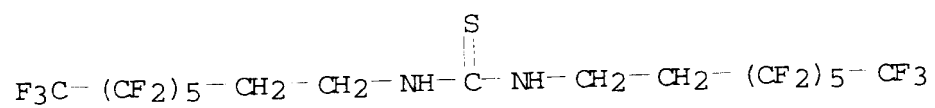
[--00000096]



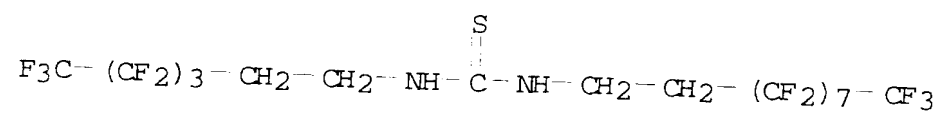
Marker: 00000091



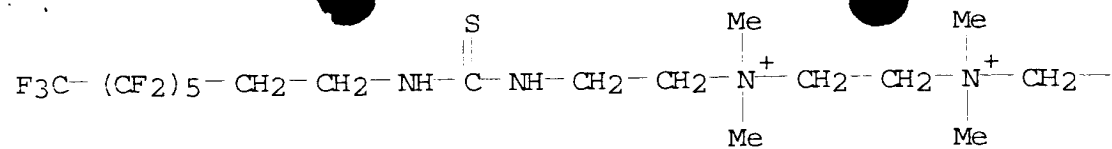
Marker: 00000092



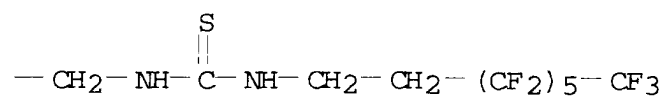
Marker: 00000093



Marker: 00000094

# 2 Br⁻

Marker: 00000095



PAGE 1-B

Marker: 00000096